Name	Period
Skill 38.01 problem 1	
a. Convert 200. cal to joules	
b. Convert 587 kJ to calories	
Skill 38.02 Problem 1	
Which substance in table 1 requires the most energy to heat? How do you know?	
Skill 38.03 Problem 1	
Calculate the energy lost by the metal object for each trial.	
(II III 40 0 4 P. 11 4	
Skill 38.04 Problem 1	0 1
A 22.0 g piece of metal was heated to 100°C in a beaker of boiling water. The hot piece	e of metal was
placed in 100 g of water at 25°C. The metal and the water reached thermal equilibrium	at 28°C. What is
the specific heat of the metal?	
1	

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NamePe	eriod
Skill 38.04 Problem 2	
(a) Calculate the specific heat of the metal for both trials.	
(b) Average the specific heats for the two trials.	
(c) Report this value to your instructor.	

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